

## Title (en)

Gas distributor comprising a plurality of channels and its use in a catalytic reactor

## Title (de)

Gasverteiler mit einer Vielzahl von Kanälen und seine Verwendung in einem katalytischen Reaktor

## Title (fr)

Distributeur de gaz avec une pluralité de canaux et son utilisation dans un réacteur catalytique

## Publication

**EP 1382382 A1 20040121 (EN)**

## Application

**EP 03254552 A 20030721**

## Priority

US 39722702 P 20020719

## Abstract (en)

A method of partially oxidizing a feed gas comprises providing a reactor containing a catalyst, providing a gas distributor comprising a body having a plurality of channels therethrough and a plurality of outlets from said channels for distributing gas across the catalyst, feeding the feed gas and the oxygen-containing gas into the gas distributor and allowing the feed gas and the oxygen-containing gas to flow through the gas distributor and out through the outlets into contact with the catalyst. The gas distributor preferably comprises a micro-channel gas distributor, which can be assembled by providing a plurality of etched plates defining flow channels, and stacking and fusing the plates. The reactant gases can be mixed within the gas distributor or maintained separately until they have exited the gas distributor.

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**B01J 8/02**; **C01B 3/38**

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## Citation (search report)

- [X] EP 0303439 A2 19890215 - DAVY MCKEE CORP [US]
- [X] WO 0176731 A1 20011018 - HYDROGEN BURNER TECHN INC [US]
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